

ABSTRACT OF THE DISCLOSURE

A controller has a plurality of modules connected to each other via buses. On the transmitter side of each module, detection/correction code generation circuit for address/command and detection/correction code generation circuits for each kind of data are switched over according to information to be transmitted by a transmitter selection circuit, and then the data is transmitted with ECC code attached. On the receiver side, a receiver selection circuit selectively switches over an error detection/correction circuit for address/command and error detection/correction circuits for each kind of data to detect and correct errors.